

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A purification device for reducing the amount of contaminants in water, said device comprising a water-soluble flocculant disposed within a segmented body defining a multiplicity of pores, wherein the pores have an average diameter in the range of from 1 μm to 2000 μm .
2. (Original) The device of Claim 1 wherein the pores have an average diameter in the range of from 50 μm to 1000 μm .
3. (Original) The device of Claim 1 wherein the pores have an average diameter in the range of from 100 μm to 800 μm .
4. (Original) The device of Claim 1 wherein the body is stretchable.
5. (Original) The device of Claim 2 wherein the body is stretchable.
6. (Original) The device of Claim 3 wherein the body is stretchable.
7. (Original) The device of Claim 1 wherein the body is flexible.
- 8-11. (Canceled)
12. (Original) The device of Claim 1 wherein the body is cylindrical.
13. (Original) The device of Claim 1 wherein the body is made from a woven fabric.
14. (Original) The device of Claim 1 further comprising means for attaching the device to a substrate.
15. (Original) The device of Claim 1 wherein the flocculant comprises a water-soluble cationic flocculant.
16. (Original) The device of Claim 15 wherein the water-soluble cationic flocculant is selected from the group consisting of a chitosan salt, a cationic N-halochitosan, a cationic gum, a cationic starch, and a cationic polyacrylamide.

17. (Original) The device of Claim 16 wherein the water-soluble cationic flocculant is a chitosan salt.

18. (Original) The device of Claim 17 wherein the chitosan salt has an average molecular weight in the range of from 20,000 Daltons to two million Daltons.

19. (Original) The device of Claim 17 wherein the chitosan salt has an average molecular weight in the range of from 50,000 Daltons to one million Daltons.

20. (Original) The device of Claim 17 wherein the chitosan salt has an average molecular weight in the range of from 100,000 Daltons to 900,000 Daltons.

21. (Original) The device of Claim 17 wherein the chitosan salt has a percentage deacetylation in the range of from 50% to 100%.

22. (Original) The device of Claim 17 wherein the chitosan salt has a percentage deacetylation in the range of from 60% to 95%.

23. (Original) The device of Claim 17 wherein the chitosan salt has a percentage deacetylation in the range of from 70% to 90%.

24. (Original) The device of Claim 17 wherein the chitosan salt is selected from the group consisting of chitosan lactate, chitosan glutamate, chitosan hydrochloride, chitosan succinate, chitosan fumarate, chitosan adipate, chitosan glycolate, chitosan tartrate, chitosan formate, chitosan malate, and chitosan citrate.

25. (Original) The device of Claim 16 wherein the water-soluble cationic flocculant is a cationic N-halochitosan.

26. (Original) The device of Claim 16 wherein the water-soluble cationic flocculant is a cationic gum.

27. (Original) The device of Claim 16 wherein the water-soluble cationic flocculant is a cationic starch.

28. (Original) The device of Claim 16 wherein the water-soluble cationic flocculant is a cationic polyacrylamide.

29. (Original) The device of Claim 1 wherein the flocculant consists essentially of a water-soluble cationic flocculant.

30. (Original) The device of Claim 29 wherein the water-soluble cationic flocculant is selected from the group consisting of a chitosan salt, a cationic N-halochitosan, a cationic gum, a cationic starch, and a cationic polyacrylamide.

31. (Original) The device of Claim 1 wherein the flocculant comprises a water-soluble anionic flocculant.

32. (Original) The device of Claim 31 wherein the anionic flocculant is selected from the group consisting of an anionic gum, an anionic starch and an anionic polyacrylamide.

33. (Original) The device of Claim 1 wherein the flocculant comprises a water-soluble cationic flocculant and a water-soluble anionic flocculant.

34. (Original) The device of Claim 33 wherein the device body comprises a first half and a second half, and more water-soluble anionic flocculant is disposed within the first half of the body than within the second half of the body.

35. (Original) The device of Claim 34 wherein at least 90% of the water-soluble anionic flocculant is disposed within the first half of the body.

36. (Original) The device of Claim 34 wherein at least 99% of the water-soluble anionic flocculant is disposed within the first half of the body.

37. (Original) The device of Claim 1 wherein:

(a) the water-soluble flocculant consists essentially of a cationic chitosan salt, said cationic chitosan salt having a molecular weight in the range of from 20,000 Daltons to two million Daltons, and a percentage deacetylation in the range of from 50% to 100%;

- (b) the body is segmented and flexible; and
- (c) the pores have an average diameter in the range of from 100 μm to 800 μm .

38-78. (Canceled)

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{PLLC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100